

Figure 1

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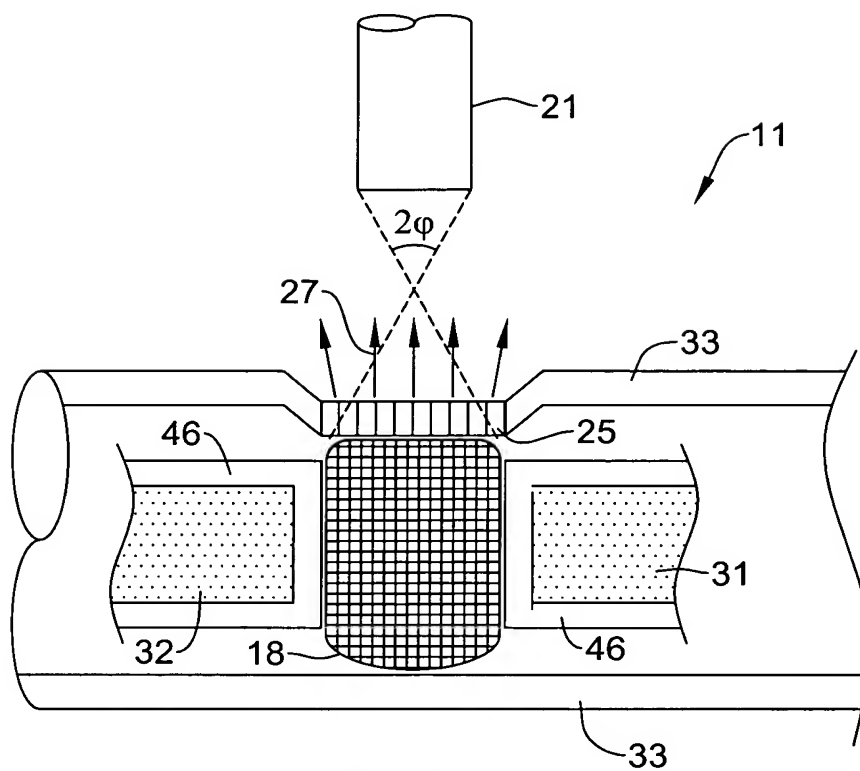


Figure 2

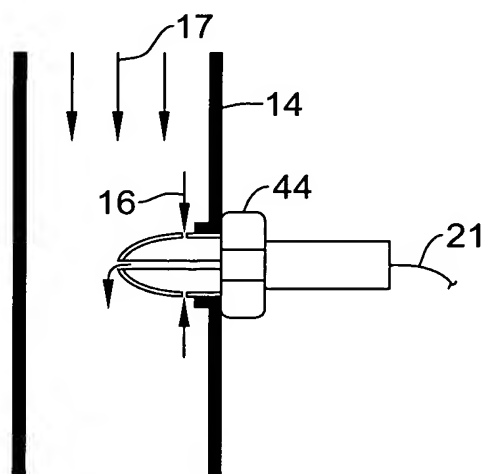


Figure 3

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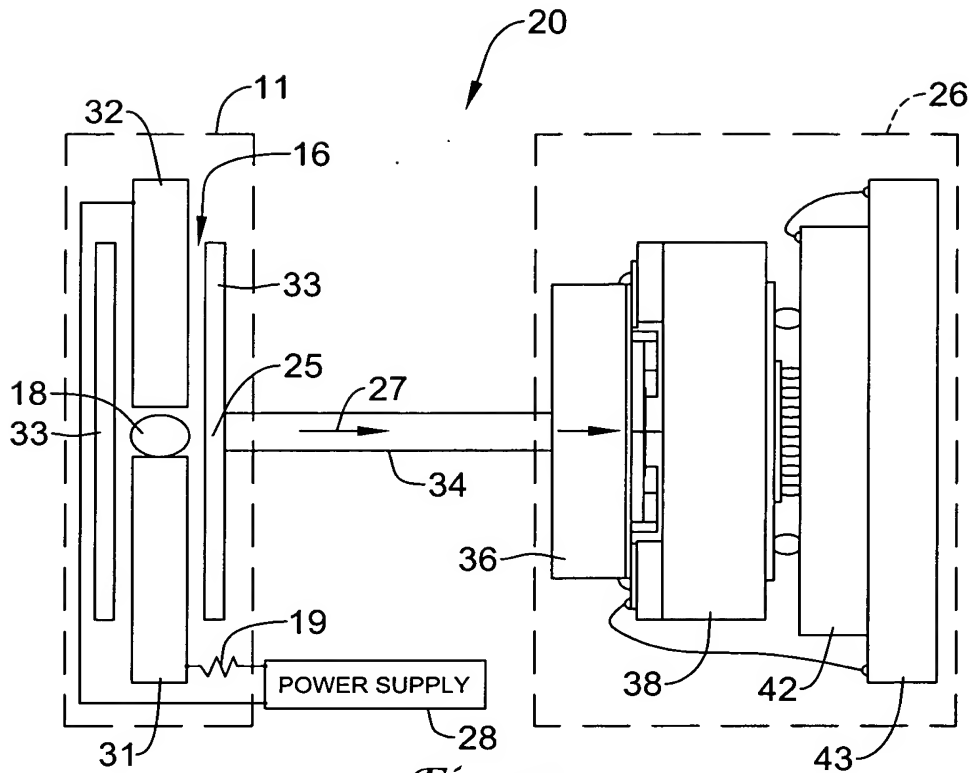


Figure 4

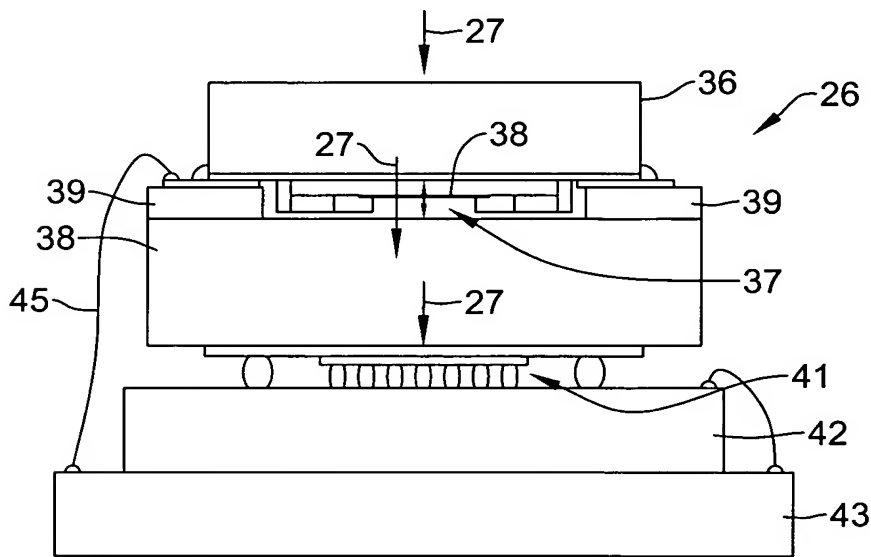


Figure 5

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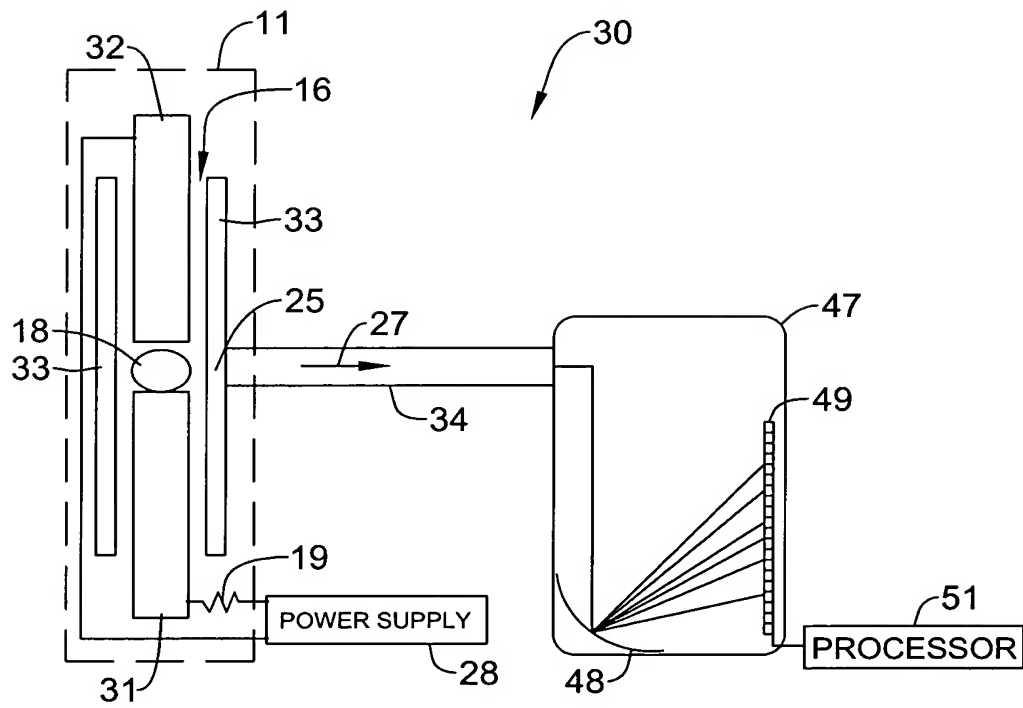


Figure 6

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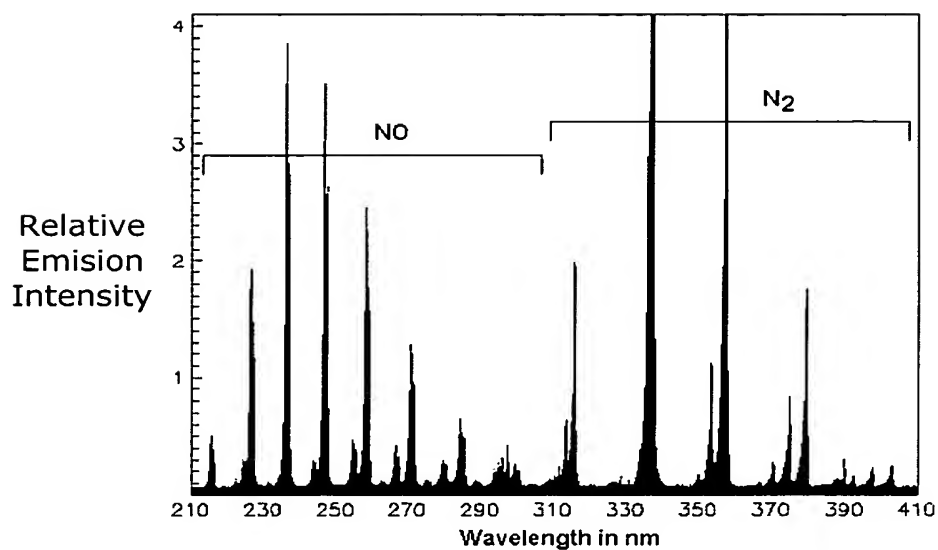


Figure 7

Ref. Index	Transm.Wavelength		Material	Ref. Index at 250 nm
	$\lambda_o=250\text{ nm}$			
-	$\phi = 20$	$\phi = 10$	-	-
1.0	234.92	246.20	Sapphire	1.845
1.5	243.41	248.32	Quartz	1.600
2.0	246.32	249.06	CaF2	1.467
2.5	247.65	249.40		
5.0	249.41	249.85		

Figure 8

Fabry-Perot-Based Wavelength Modulation for Gas Sensing										
Gas	Band Ctr.	Tine Spac.		Line Width	$\nu/\Delta\nu$	FP-Spac.		Dither	Band Ctr.	Comments
		Cm-1	$\Delta\lambda$ in cm-1			mm	μm			
-	cm-1				ppm					
02	13145	2.121	0.174	161		2.357	0.380373	760.746		
02	13145	50.000	25.000	3804		0.100	0.380373	760.746		
02	13090	7.229	0.174	552		0.692	0.381971	760.942		
CO	2170	3.57	0.357	1645		1.401	2.304147	4608.295		NDIR absorption
NO	30000	15000		500000		0.00033	0.166667	333.33	222.22	666.67 166.67
NO	33333	10000		300003		0.00050	0.150002	300.00	230.77	428.58 90.00
										UV emissive
										UV emissive

Figure 9

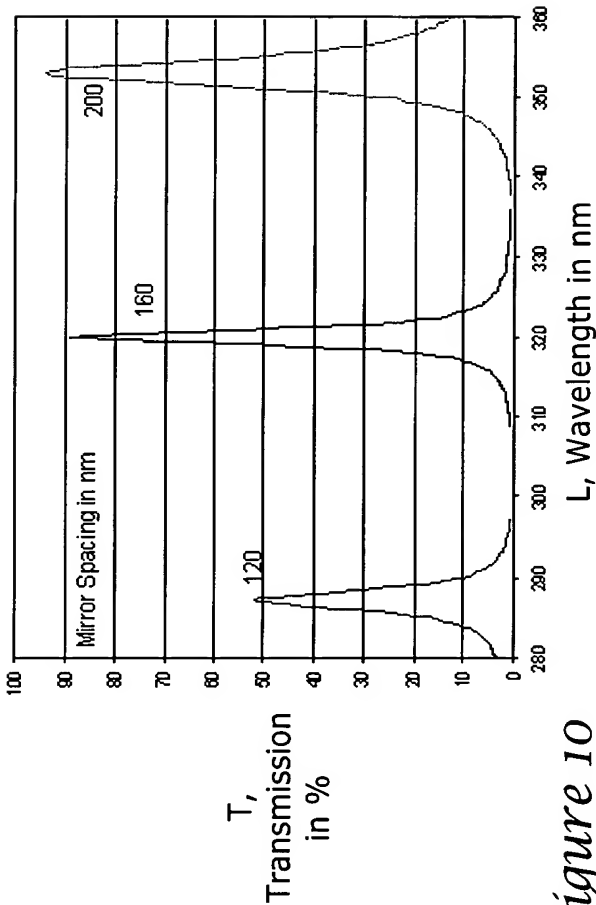


Figure 10